Stormwater Pollution Prevention Plan

for:

Market Street Marine Terminal 555 Market Street Portsmouth, NH 03801 (603) 436-8500

SWPPP Contact:

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PORTSMOUTH, NH

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SECTION 1: FACILITY DESCRIPTION AND CONTACT INFORMATION

1.1 Facility Information

Facility Information				
Name of Facility: Market Street Marine Terminal		_	. 	
Street: 555 Market St.				
City: Portsmouth	State:	NH	ZIP Code:	03801
County or Similar Subdivision: Rockingham County	_			
Permit Tracking Number: NHR05BN24	(i	f covered	l under a prev	ious permit
Latitude/Longitude (Use one of three possible formats, a	nd specify method	d)		
Latitude:	Longitude:			
1. 43 ° 04 ' 59" N (degrees, minutes, seconds)	1. 70 ° 45 ' 43"	W (degre	ees, minutes,	seconds)
2º 'N (degrees, minutes, decimal)	2 ° ·	_' W (deg	rees, minutes	s, decimal)
3 ° N (decimal)	3	° W (dec	mal)	
Method for determining latitude/longitude (check one):				
USGS topographic map (specify scale:)	⊠ EP/	A Web site	☐ GPS
Other (please specify):				
Is the facility located in Indian Country?	⊠ No			
If yes, name of Reservation, or if not part of a Reservation	n, indicate "not ap	plicable.	Not applic	able
Is this facility considered a Federal Facility?	Yes	——– ⊠ No		
Estimated area of industrial activity at site exposed to sto	rmwater:	12.4	(ac	cres)
Discharge Information		-	(,
Does this facility discharge stormwater into an MS4?	Yes No			
If yes, name of MS4 operator: N/A				
Name(s) of water(s) that receive stormwater from your fa	cility: Piscataqua	a River		
Are any of your discharges directly into any segment of a	n "impaired" wate	r? 🛚	Yes N	10
If Yes, identify name of the impaired water (and segment	, if applicable): <u>Lo</u>	ower Pis	cataqua Rive	er
Identify the pollutant(s) causing the impairment: <u>diox</u> <u>bioassessments</u> , <u>mercury</u> , <u>PCBs</u>	ins, enterococcu	us bacte	ria, estuarine	<u> </u>
For pollutants identified, which do you have reason to	believe will be pr	esent in	your discharg	e?
mercury, PCBs				
For pollutants identified, which have a completed TMI	DL? <u>Enterococ</u>	cus Bact	eria	

Do you discharge into a receiving water designated as a Tier 2 (or Tier 2.5) water?	Yes	⊠ No	
Are any of your stormwater discharges subject to effluent guidelines? $\ \ \Box$ Yes $\ \ \ ar{}$	☑ No		
If Yes, which guidelines apply? N/A			_
Primary SIC Code or 2-letter Activity Code: 4491	_		
(refer to Appendix D of the permit & Appendix E of the SWPPP)			
Identify your applicable sector and subsector: Sector Q – Water Transportation			

1.2 Contact Information/Responsible Parties

Facility Operator (s):

Name: Geno Marconi, Port Director

Address: 555 Market St.

City, State, Zip Code: Portsmouth, NH 03801

Telephone Number: 603-436-8500

Email address: g.marconi@peasedev.org

Fax number: 603-436-2780

Facility Owner (s):

Name: State of NH, Pease Development Authority - Division of Ports and Harbors (PDA-DPH)

Address: 555 Market St.

City, State, Zip Code: Portsmouth, NH 03801

Telephone Number: 603-436-8500

Email address: g.marconi@peasedev.org

Fax number: 603-436-2780

SWPPP Contact:

Name: **Geno Marconi, Port Director** Telephone number: **603-436-8500**

Email address: g.marconi@peasedev.org

Fax number: 603-436-2780

1.3 Stormwater Pollution Prevention Team

Staff Names	Individual Responsibilities
Geno Marconi, Port Director	Coordinator of the SWPPP BMP Plan and overseer for annual review of the SWPPP; Inspector
Whitney Anderson, Operations Assistant	Primary spill response coordinator, Inspector
Tracy Shattuck, Chief Harbormaster	Secondary spill response coordinator
Jared Sheehan, PDA Engineering	SWPPP updates and annual training

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Material Storage Practices

- Division containers, drums, and bags are stored indoors.
- Containers, drums, and bags used by tenants are stored away from direct traffic routes to prevent accidental spills. See Cianbro SWPPP for Cianbro BMPs.
- Responsibility of hazardous material inventory is assigned to a limited number of people who are trained to handle hazardous materials.
- Storage containers are stacked according to manufacturers' instructions to avoid damaging the containers from improper weight distribution.
- Storage containers are stored on pallets or similar devices to prevent corrosion of the containers which can result when containers come in contact with moisture on the ground.

Material Inventory Procedures

- Maintain an up-to-date inventory of all potentially hazardous materials present on the site to prevent overstocking. Track where materials are stored and handled onsite
- Plainly label all containers to show the name and type of substance (e.g., "Used Oil," "Spent Solvents," "Fertilizers and Pesticides," etc.)

3.2.3 Maintenance

The Division regularly maintains the structural controls, Terminal Yard, and Division equipment at the Terminal to minimize or prevent situations which might result in an adverse impact to stormwater. Other than fueling, lubrication and minor repairs (e.g., replacing broken fluid lines) all tenant equipment is maintained off-site.

Daily Maintenance Procedure

- Check incoming vehicles and equipment for leaking oils and fuels.
- Promptly repair defective vehicles and equipment found during inspections.
- Keep detailed records of any on-site leaking vehicles and equipment and the corrective action taken.
 Record test results and follow up with corrective action.

Weekly Maintenance Procedures

- Inspect outdoor vehicle and equipment storage and parking areas for dripping engine and automotive fluids from parked vehicles and equipment.
- Inspect and remove sediment from sediment sacks in catch basins as necessary.
- Promptly repair defective sediment sacks found during inspections.
- Inspect and vacuum sediment from catch basin sumps if necessary.
- Inspect the salt pile for spilled, uncovered salt that may come in contact with stormwater.
- Clean up spilled salt and dispose of salt properly.

Monthly Maintenance Procedure

- Remove oil, if necessary, from catch basins equipped with hoods
- Inspect and if necessary remove sediment and oil from the three hydrodynamic particle separators (SWTUs #1-#3). The Operations and Maintenance Manual for these treatment units is included in Appendix Y.
- Examine the site for erosion and sedimentation, including outfalls, non-paved areas, and the salt pile, if uncovered during stockpiling.

Annual Maintenance Procedures

Vacuum catch basin sumps

3.2.4 Spill Prevention and Response

Spill Prevention and Response Program

Spills and leaks together are one of the largest sources of potential stormwater pollutants, and in most cases are avoidable. Standard operating procedures such as safety and spill prevention procedures along with proper employee training can reduce these accidental releases. Also refer to the existing Oil Spill Plan which is posted in several locations throughout the Terminal including the scale house, Port offices and work areas, and the front gate guard shack (also included here in Appendix U).

Container Labeling Procedures

- Plainly label all containers (e.g., "Used Oil," "Spent Solvents," Fertilizers and Pesticides," etc.) that
 could be susceptible to spillage or leakage to encourage proper handling and facilitate rapid response
 if spills or leaks occur. Make sure labels are clearly written in large print with a permanent marker.
 Types of containers that must be labeled include:
 - Paints
 - Fuels
 - Solvents
 - Antifreeze
 - Batteries
 - Waste Oil

 Create an inventory of labeled containers contents and location unless the substance is stored in its original container. Specify if the contents are hazardous.

Preventative Measures

- Sealing of floor drains. The only floor drain in the warehouse is in the workshop area and it is connected to the City sewer system.
- Do not wash down work areas and spills with water. Clean up leaks, drips and other spills without large amounts of water. Use rags for small spills, a damp mop for general cleanup, and dry absorbent material for larger spills. Use the following BMPs:
 - Avoid hosing down the work area.
 - Collect leaking or dripping fluids in drip pans or containers. If different liquids are kept separate, the fluids are easier to recycle.
 - Keep a drip pan under the vehicle while unclipping hoses, unscrew filters, or remove other parts.
 - Promptly transfer used fluids to the proper waste or recycling drums. Don't leave full drip pans or other open containers lying around.
- Use following BMPs to prevent stormwater contamination for specific hazardous and non-hazardous materials:
 - Anti-freeze: Re-use or dispose to a sanitary sewer (if permitted) or by a waste transporter permitted to handle this waste
 - Used lead-acid batteries: Disposal by an approved recycler
 - Waste oil: Removed by a permitted waste oil transporter
 - Oil filters: Crush or puncture and hot-drain by placing the filter in a funnel over an
 appropriate waste collection container to allow the excess petroleum product to drain into
 the container. Drained filters must be collected and recycled when possible. Only filters
 that have been crushed or hot-drained to remove all excess oil may be disposed of as solid
 waste.
 - Mercury lamps and switches: Spent fluorescent bulbs, other mercury lamps, and mercury switches are hazardous waste. They must be stored safe from breakage and recycled or disposed as hazardous waste.
 - Fiber reinforced plastic (epoxy and polyester resins): Small amounts of unused resins may be catalyzed prior to disposal as solid waste. However, catalyzation is not an acceptable method of disposing of outdated or unneeded resin stores. These materials must be treated as hazardous waste and disposed of by a licensed waste disposal company.
 - Common solvents: solvents such as acetone or methylene chloride evaporate easily and must be kept in covered containers
 - Glue and adhesives: Residual amounts of glue and adhesives remaining in empty caulking tubes may be disposed of as solid waste. All other glue and adhesive related wastes must undergo a determination for hazardous waste characteristics. Non-hazardous glues and adhesives in liquid form cannot be disposed of as solid waste and must be used for their originally intended purpose.

- Paints, waste diesel, kerosene, and mineral spirits: Disposal must be performed by a licensed waste transporter. These waste products must not be allowed to evaporate; poured on the ground; disposed of in storm sewers, septic systems, or POTWs; or discharged to surface waters.
- Waste gasoline: When possible, filter and use as fuel. It must not be allowed to evaporate; poured on the ground; disposed of in storm sewers, septic systems, or sanitary sewers; or discharged to surface waters. It must be removed from site by a licensed waste transporter.
- Trash and other solid waste: All trash and solids must be contained and disposed of appropriately in covered trash cans or recycling receptacles.
- Plastic barriers and tarpaulins: Properly store plastic barriers and tarpaulins for reuse or disposal.

Spill Prevention

Refer to Cianbro's SWPPP for information relating to spill prevention.

Leak and Spill Response Procedures

Leaks, spills, and other releases must be expeditiously stopped, contained and cleaned up.

- OIL SPILL PLAN (procedures in case of an oil spill and spill equipment). A copy of the "Oil Spill
 Response Plan" is included in Appendix U. The plan is visibly posted in several prominent locations
 throughout the Terminal including the scale house and Port offices. Oil spill "kits" are located at
 various locations at the Terminal. In particular;
 - Scale house
 - Potable water house
 - Port workshop
 - Port office

The Port also keeps an oil spill response trailer in the warehouse ready for use whenever a spill occurs. The trailer contains a spill kit, adsorbent pads, speedy dry, and drain protector safety seals.

- In the event that spill prevention measures fail, a swiftly executed response will reduce or prevent contamination of stormwater. In the event of a spill at the Market Street Marine Terminal, all Division employees, Terminal tenants, contractors and subcontractors must immediately take the appropriate action to:
 - Eliminate the source
 - Contain the spill
 - Remove the spill
 - A spill response kit must be readily available at the Port office and maintenance area.
 - All tenants of the Terminal must maintain a spill response kit in the immediate vicinity of their equipment work area.

Notification Procedures

- In the event of a spill, immediately notify the Port office at 603-436-8500.
- In the event of a spill which enters the tidal waters or threatens to enter the tidal waters, immediately notify the U.S. Coast Guard at 1-800-424-8802.
- In the event of a spill that cannot be contained and removed with the spill kit, immediately notify Tradebe at 1-888-276-0885.
- Where a leak, spill, or other release containing a hazardous substance or oil in an amount equal to or
 in excess of a reportable quantity established under either 40 CFR Part 110, 40 CFR Part 117, or 40
 CFR Part 302, occurs during a 24-hour period, you must notify the National Response Center (NRC)
 at (800) 424-8802 in accordance with the requirements of 40 CFR Part 110, 40 CFR Part 117, or 40
 CFR Part 302 as soon as you have knowledge of the discharge.
- New Hampshire state statutes (Env-Or 604.06) require that all petroleum spills be reported if any of the following situations occur:
 - A discharge of any oil into surface water or groundwater of the state;
 - o A discharge of 25 gallons or more of oil to land;
 - A discharge of less than 25 gallons of oil to land unless the discharge is cleaned up immediately and properly disposed of;
 - A discharge of oil that results in the presence of vapors that pose an imminent threat to human health;
 - A discharge of oil resulting in a violation of the groundwater quality criteria of Env-Or 603.01 in a sample collected from a water supply well; or
 - o A discharge of oil resulting in the detection of non-aqueous phase liquids (NAPL).

See Appendix U for additional details.

3.2.5 Erosion and Sediment Controls

The Terminal Yard is paved with asphalt; therefore, the potential for erosion is limited to the discharges at the outfalls. Sediment is generated by the materials stored in the Terminal Yard and the vehicular traffic. BMPs in place at the Terminal to prevent erosion and control the discharge of sediment include:

- Maintain riprap and rock-lined slopes at the outfall locations.
- Inspect flared-end sections for defects and detachment from outfall pipes.
- Maintain grass and vegetation on the limited unpaved areas.
- Maintain sediment sacks in catch basins, inspect weekly, and remove sediment if needed.
- Inspect catch basin sumps weekly and vacuum when sediment level is within 3 to 4 inches of the bottom of the eliminator stems attached to the oil traps installed in the catch basin outlet pipe.
- Sweep and/or vacuum Terminal Yard as discussed in Section 3.2.3 above.

3.2.6 Management of Runoff

Runoff from the Terminal Yard passes through three stormwater treatment units (SWTU) before discharging to the Piscataqua River. Impervious pavement covering the northern portion of the Terminal Yard is graded to direct stormwater to several catch basins, which discharge into two separate subsurface stormwater

collection systems that discharge to SWTU 1 (Outfall 10) and SWTU 2 (Outfall 11). The impervious pavement in the southern portion of the Terminal yard is graded to direct flow over the surface to one inlet structure (CB 23) which discharges to SWTU 3 (Outfall 12). Runoff from the main wharf flows by sheet flow to the river. Runoff from the barge dock flows to four catch basins on the dock, which discharge to the river via Outfalls 06, 07, 08, and 09.

3.2.7 Outdoor Storage of Salt

Loading, unloading, and/or storage of salt is a year-round activity at the Terminal. The salt pile covers approximately one and one-half acre of lay down area in the northern portion of the Terminal Yard. The following BMPs are employed at the Terminal to reduce stormwater contamination from salt storage and transfer activities:

- The salt storage pile is located on asphalt to reduce the potential for ground water contamination
- The salt storage pile is covered with a plastic material and weighted down with sand/salt bags except during loading and loading/unloading activities to prevent exposure to stormwater
- Pavement around the salt storage pile is generally graded to prevent stormwater run-on from reaching the pile
- Any salt spilled during loading/unloading from surrounding pavement is cleaned up routinely following the completion of loading and unloading activities.

3.2.8 MSGP Sector-Specific Non-Numeric Effluent Limits

The additional technology-based, non-numeric effluent limits discussed in Section 8 of the MSGP were incorporated into the BMP discussion above. The potential for stormwater pollution form pressure washing, sanding and painting, storage of containerized, hazardous materials, and engine repair and maintenance are all conducted indoors inside the warehouse to eliminate the exposure to stormwater. Maintenance and inspection procedures were discussed in Section 3.2.3 above, while employee training is discussed in the subsequent section. The Terminal does not have a dry dock operation.

3.2.9 Employee Training

Employee training is essential to effective implementation of the SWPPP. The purpose of a training program is to teach personnel the components and goals of the SWPPP. Records shall be maintained that identify which employees have received training in good stormwater management practices. All employees who work in areas where industrial materials or activities are exposed to stormwater, or who are responsible for implementing activities necessary to meet the conditions of this permit (e.g., inspectors, maintenance personnel), including all members of the Pollution Prevention Team listed in Section 1.3 must receive training at least annually.

Annual Training Plan

The training plan covers the following areas: Spill Prevention and Response, Good Housekeeping, and Materials Management Practices. See Appendix K for an outline of the areas covered during annual training.

Additional Training Tools

- Discuss stormwater pollution prevention at routine employee meetings, at least monthly including topics such as
 - New potential sources for stormwater contamination
 - Changes to the SWPPP
 - Results of routine inspections and stormwater sampling
 - Evaluation of the effectiveness of the training program

Implementation of Training

The employee training program will be monitored and implemented by the Port Director in conjunction with PDA Engineering. In addition, Terminal personnel have received Hazardous Waste Operation and Emergency Response Standard (HAZWOPER) training.

3.2.10 Non-Stormwater Discharges

The Division's operations at the Terminal do not typically generate non-stormwater discharges. However, discharges such as fire hydrant flushings or washdowns of pavement or the outside of buildings (with no detergents) may be discharged under the MSGP. Refer to Cianbro's SWPPP for information relating to good housekeeping measures associated with process water operations.

3.2.11 Waste, Garbage and Floatable Debris

Waste, garbage, and floatable debris shall not be discharged to receiving waters. Exposed areas will be kept free of such materials or materials will be intercepted before they are discharged. Employees shall inspect the site daily for litter and loose garbage and collect the materials for properly disposal. Waste receptacles shall be covered to prevent windblown litter.

3.2.12 Dust Generation and Vehicle Tracking of Industrial Materials

Generation of dust and off-site tracking of raw, final, or waste materials must be minimized. As described in Section 2.3 above, the Division completed certain structural improvements that have allowed consolidation of storage operations within a bermed area at the southern end of the Terminal. This consolidation is expected to reduce the generation and accumulation of dust and sediments in the Terminal yard travelways. Removal of a pre-existing structure and relocation of drainage systems near the pier allow for the establishment of separate travelways for trucks loading and unloading material onto vessels and other trucks using the Terminal. This separation of vehicle travelways should provide additional mitigation of dust generation during loading of vessels. Sweeping will also be used to control generation of dust by cleaning up material tracked onto the site by vehicles (refer to Section 3.2.2, Good Housekeeping, above).

SECTION 4: SCHEDULES AND PROCEDURES FOR MONITORING

4.1 Sample Locations

The following outfall locations (see Site Map) are active at the Terminal:

- Barge Wharf: Outfalls 06, 07, 08, and 09 are substantially identical outfalls located under the Barge Wharf along the Terminal's northern boundary. Together, these outfalls drain approximately 49,500 square feet of the paved barge wharf. This wharf is used intermittently for discharging passengers from vessels; the transfer of closed containers and industrial and commercial machinery of various sizes (i.e., break bulk cargo), such as utility power equipment; as an assembly and staging area for finished sections of steel bridges; and for fishing boats to unload their catch. Outfalls 06, 07, 08, and 09 are under water except during an extremely low tide, and even then, safety concerns associated with access beneath the wharf make them inaccessible. The Division intends to use the closest upstream sampling point, Catch Basin 14 (CB14) leading to Outfall 06, as the sampling point for substantially similar Outfalls 06-09, but may vary the location depending on the industrial activities being conducted on that wharf prior to the discharge event.
- Outfall 10: Outfall 10 was installed in 2012 downstream from SWTU 1. Outfall 10 is located under center section of the main wharf. The outlet protrudes from a steel bulkhead. The approximately 120,000-square foot paved drainage area includes the road salt storage pile, the area of the scale and scale house, and a large portion of the main truck travelway around the interior of the Terminal yard. The drainage area contains has five catch basins: CB's 9, 18, 19, 20, and 21. Outfall 10 is accessible only during an extremely low tide. If outfall 10 is not accessible, the sample will be taken at DMH-1, just upstream of Outfall 10 but downstream from SWTU 1.
- Outfall 11: Outfall 11 was installed in 2012 downstream from SWTU 2. Outfall 11 is located to the south of the southern entrance to the main wharf. The approximately 112,100-square foot paved drainage area served by Outfall 11 includes a large portion of the main truck travelway around the interior of the Terminal yard and a majority of the warehouse roof drainage. The drainage area contains has five catch basins: CB's 1, 6, 7, 8 & 22. The outfall pipe for Outfall 11 is 24-inch diameter, reinforced concrete with a flared end section underlain by rip rap.
- Outfall 12: Outfall 12 was installed in 2012 downstream from SWTU 3. The drainage area is approximately 148,725-square foot and drains to a single catch basin (CB 23). The outfall pipe for Outfall 12 is 24-inch diameter, reinforced concrete with a flared end section underlain by rip rap.

The following outfalls were sealed during construction of the 2012 stormwater upgrades:

- Outfall 01: Redirected to Outfall 11.
- Outfall 02: Replaced by Outfall 11.
- Outfalls 03, 04, and 05: Replaced by Outfall 12.

Other Stormwater Discharges

There are limited areas of the Terminal that discharge via overland flow directly to the Piscataqua River or towards Market Street. These areas include the southeast boundary where the Steamship Company operates and the northwestern corner of the Terminal yard on the other side of the B&M railroad tracks where the tenant vehicle parking areas are located. Industrial activities do not typically occur in these areas.

4.2 Measurable Storm Events

Stormwater samples for the required monitoring discussed herein in Sections 4.3 and 5.3 will be collected within the first 30 minutes of an actual discharge from a storm event that occurs at least 72 hours from a previously "measurable" storm event (i.e., one that results in an actual discharge from the Facility); however, the 72-hour storm interval does not apply if it is documented that less than a 72-hour interval is representative for local storm events during the monitoring period. If it is not possible to collect the sample within the first 30 minutes of discharge, the sample will be collected as soon as practicable after the first 30 minutes, and the reason for the delayed sampling will be documented in the stormwater report. The storm event record will include the date and duration of the rainfall event and the rainfall total (in inches) as determined from locally available storm records. In the case of snowmelt, the monitoring must be performed when a visible discharge occurs at the Facility. A record of measurable storm events will be provided along with the quarterly monitoring report.

4.3 Sampling Schedule

4.3.1 Benchmark Monitoring

Each industrial sector has its own requirements for Benchmark monitoring. The Benchmark monitoring data is to be used by the Division to determine the overall effectiveness of the control measures at the Terminal. Quarterly benchmark monitoring for each required parameter will continue at the Terminal until the average of four consecutive quarterly samples is below the Benchmark value, at which time the monitoring requirement for that parameter has been fulfilled for the permit term.

4.3.1.1 Additional Benchmark Monitoring Procedures

Benchmark monitoring must be conducted quarterly as identified in Part 6.1.7 of the MSGP for the first 4 full quarters of permit coverage commencing no earlier than April 1, 2009. Refer to the MSGP Part 6.2.1.2 if the average of the sampling data for four consecutive quarters does not exceed benchmarks or if data exceeds benchmarks.

2013 Schedule:

 January – March 2013, April – June 2013, July – September 2013, October -December 2013.

4.3.2 Impaired Waters Monitoring

Sampling for impaired monitoring parameters (PCBs and mercury) will be performed at least annually. During 2013 sampling for impaired monitoring parameters (PCBs and mercury) will be performed quarterly.

4.3.3 Assessment of SWTUs

For a 6-month period following completion of the 2012 stormwater upgrades (i.e., beginning in December 2012), the monitoring program at the Terminal will include additional monthly samplings for total and dissolved metals (aluminum, copper, iron, lead, mercury, and zinc) at Outfalls 10, 11, and 12. The purpose of this testing is to measure the effectiveness of SWTU 1, 2, and 3 in removing metals from the stormwater discharge and to determine what fraction of the total metals discharge is dissolved in stormwater. After the six monthly samples are collected, this additional sampling will cease. Regular quarterly sampling will continue throughout and after this additional monthly sampling is completed.

4.3.4 Annual Effluent Limitations Guidelines Monitoring

Not Applicable

4.3.5 State or Tribal-specific Monitoring

Not Applicable

4.4 Sampling Parameters

One outfall at the Barge Wharf and Outfalls 10, 11, and 12 will be sampled for the Sector Q Benchmarks and applicable Impaired Waters pollutants because the site discharges to the Lower Piscataqua River, a water quality impaired water body. Upon Grimmel's departure from the Port in January of 2015, Sector N sampling by the Division at Outfalls 10, 11 and 12 for three additional parameters which were applicable to Grimmel operations will continue until December of 2015, which are not included under Sector Q (i.e., total copper, chemical oxygen demand, and total suspended solids). A summary of the monitoring parameters at each outfall is provided below.

Summary of Monitoring Parameters					
Outfalls	Monitoring Program	Sampling Frequency	Pollutant	Sector	Benchmark/ Water Quality Value
06 ¹ , 10, 11, 12	Benchmark	Quarterly	Total Aluminum	Q, N	0.75 mg/L
06 ¹ , 10, 11, 12	Benchmark	Quarterly	Total Iron	Q, N	1.0 mg/L
06 ¹ , 10, 11, 12	Benchmark	Quarterly	Total Lead	Q, N	0.262 mg/L ²
06 ¹ , 10, 11, 12	Benchmark	Quarterly	Total Zinc	Q, N	0.26 mg/L ²
10, 11, 12	Benchmark	Quarterly	Total Copper	N	0.0332 mg/L ²
10, 11, 12	Benchmark	Quarterly	Chemical Oxygen Demand	N	120 mg/L
10, 11, 12	Benchmark	Quarterly	Total Suspended Solids	N	100 mg/L
06 ¹ , 10, 11, 12	Impaired Waters	Annually	Mercury	All, if applicable	0.0021 mg/L ⁴
06 ¹ , 10, 11, 12	Impaired Waters	Annually	PCB's	All, if applicable	0.01 mg/L ⁴
None	Impaired Waters	NMR ³	Dioxins	All, if applicable	-
None	Impaired Waters	NMR ³	Enterococcus Bacteria	All, if applicable	-
None	Impaired Waters	NMR ³	Estuarine Bioassessments	All, if applicable	-

¹Sample to be collected at the Barge Wharf from Outfall 06 or equivalent outfalls 07, 08 or 09.

4.5 Sampling Procedures

The Port Director will coordinate sample collection and logistics for taking and handling samples, laboratory to be used, etc. The Division will hire a consultant (currently Ransom Consulting, Inc.) to collect stormwater samples and a certified laboratory (currently Alpha Analytical) for testing of the samples. Monitoring must be conducted and samples must be analyzed according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in the permit.

The sampling procedure at the different outfalls will vary because of the configuration of some outfalls and the influence of the tides. In general, the procedures leading up to a sampling event are as follows:

²Values for copper, lead, and zinc are taken from 2008 MSGP and based on an email from EPA Region I re: MSGP benchmarks for hardness-dependent metals in saline waters.

³NMR - No Monitoring Required per 2008 MSGP Monitoring Guidance for Discharges into Impaired Waters (See Appendix J)

⁴ Values obtained from NHDES Marine Acute Water Quality Criteria, NH Code of Admin. Rules, Env-Wq Chapter 1700, Tables Env-Wq 1703.1 and 1703.2.

- Consultant will monitor weather conditions and forecasts and inform the Division of a possible upcoming sampling event. Consultant will prepare a sampling kit for rapid mobilization in the event that a discharge does occur.
- Division personnel will assess operating and weather conditions to ensure that it is safe for the Consultant to enter the Site to sample during the storm event.
- After a storm event commences, Division personnel will observe site conditions and the stormwater outfalls for evidence of a discharge.
- If a discharge is observed at any of the outfalls, Division personnel will immediately inform the Consultant, who will immediately mobilize to the Site to begin sampling.
- Sampling will commence at the location with the first observed discharge. In general, the sampling order is expected to be as follows: Outfall 12, Outfall 11, Outfall 10, and the selected Barge Wharf outfall.

Substantially identical outfall exception:

Barge Wharf Outfalls (06, 07, 08, and 09)

Outfalls 06, 07, 08, 09 are spaced approximately 40 to 50 feet from each other under the Barge Wharf along the site's western boundary. Each outfall (06, 07, 08, and 09) receives stormwater from a catch basin (CB-14, CB-15, CB-16, and CB-17, respectively) along the southeastern side of the Barge Wharf. The approximately 49,500 square foot drainage area is mostly bituminous pavement except for the concrete wharf and the grassy slope that is southeast of the wharf. The runoff coefficient is high (above 65%) in all four drainage areas and similar industrial activities (unloading/loading of vessels) occur along the length of the wharf. Therefore, the stormwater discharges from each outfall are considered to be equivalent. Because Outfall 06 is representative of the wharf activities that are occurring in the drainage areas for Outfalls 07, 08, and 09, and because it also receives flow from the boat launch ramp area at the end of the wharf, it will be the sampling location used to represent the four outfalls under the Barge Wharf. Outfall 06 (and Outfalls 07, 08, and 09) can only be accessed on foot by crossing rip-rap with restricted head space and then only for a limited period of time at low tide. This, in addition to the slick conditions which occur when the rip rap is wet, creates an unsafe situation for the samplers. Therefore, the Barge Wharf outfalls will be represented by collecting a sample from the associated catch basin.

A collection container will be suspended below the silt sack inside the catch basin. The grate, silt sack, and collection container will be lifted out of the catch basin structure and the sample will be taken out of the collection container. Note the Catch basins 14, 15, 16, and 17 each contains a sump which may also trap sediment prior to the storm flow being discharged to the receiving waters. The sampling procedure does not account for the additional treatment that may be occurring in the catch basin.

The availability of all of the catch basin locations on the Barge Wharf may be limited at times by exceptional high tides, though less so than the outfalls themselves, or by materials temporarily stockpiled on the wharf. Consequently, there may be occasions when stormwater samples cannot be obtained due to tidal influences and operations. Sampling events and attempts will be documented.

SECTION 5: INSPECTIONS

For the <u>routine facility inspections</u> and the <u>comprehensive site inspections</u> to be performed at the Terminal:

 The names of the person(s), or the positions of the person(s), responsible for inspection: Geno Marconi

5.1 Routine Facility Inspections

Routine facility inspections must be conducted at least quarterly in accordance with the MSGP Part 4.1. At least once per calendar year, the routine facility inspection must be conducted during a period when a stormwater discharge is occurring. The quarters are designated as follows:

- Quarter 1: January March;
- Quarter 2: April- June
- Quarter 3: July September
- Quarter 4: October -December.

Documentation of the inspection is not required to be submitted to the EPA unless specifically requested but will be maintained onsite with this SWPPP. A routine facility inspection form is included in Appendix L.

Areas of the facility where industrial materials or activities are exposed to stormwater (e.g., the loading/unloading wharfs, the salt storage pile, vehicle travelways, etc.) and the structural stormwater control measures (e.g., catch basins, SWTUs) in place at the Terminal will be included in the inspections.

The comprehensive site inspection may also be used as one of the routine facility inspections.

Any corrective action required as a result of a routine facility inspection must be performed consistent with Part 3 of this permit and documented.

5.2 Comprehensive Site Inspections

Comprehensive site inspections must be conducted annually in April accordance with the MSGP Part 4.3.

The comprehensive site inspection must cover all areas of the facility affected by the requirements in this permit including the areas identified in the SWPPP as potential pollutant sources where industrial activities are exposed to stormwater, any areas where control measures are used to comply with the effluent limits in Part 2 of the MSGP and areas where spill and leaks have occurred in the past 3 years. The inspections must also include a review of monitoring data collected during benchmark monitoring (Section 4 of the SWPPP). Inspectors must consider the results of the past year's visual and analytical monitoring when planning and conducting inspections.

The Inspector must examine the following:

- Industrial materials, residue, or trash that may have or could come into contact with stormwater;
- Leaks or spills from industrial equipment, drums, tanks, and other containers
- Offsite tracking of industrial or waste materials, or sediment where vehicles enter or exit the site:
- Tracking or blowing of raw, final, or waste materials from areas of no exposure (i.e., inside the warehouse) to exposed areas; and
- Control measures needing replacement, maintenance, or repair

The comprehensive site inspection may also be used as one of the routine facility inspections, as long as all components of both types of inspections are included. Documentation of the inspection must be submitted in an annual report as required in Part 7.2 of the MSGP and must be maintained onsite with this SWPPP. The Annual Reporting Form is included in Appendix N.

5.3 Quarterly Visual Assessments

 Visual Assessments will be performed quarterly in accordance with the MSGP Part 4 along with the quarterly sampling events.

2013 Schedule:

- January March 2013, April June 2013, July September 2013, October December 2013.
- Samples are not required to be collected consistent with 40 CFR Part 136 procedures, but must be collected in a manner representative of the stormwater discharge.
- Stormwater samples will be collected from Outfalls 10 (or DMH1), Outfall 11, and Outfall 12 as
 described in Section 4.1 of this SWPPP, and from one of the equivalents outfalls (Outfalls 06, 07,
 08, and 09), provided that the visual assessments are performed on a rotating basis of each
 substantially identical outfall throughout the period of coverage under this permit.
- The visual assessment will be made using:
 - A sample collected in a clean, clear glass or plastic container, and examined in a well-lit area:
 - Samples collected within the first 30 minutes of an actual discharge from a storm event or as soon as practicable after the first 30 minutes of discharge. Documentation will be provided regarding the sample timing when the sample is collected more than 30 minutes beyond the first discharge. In the case of snowmelt, samples will be taken when a measureable discharge is observed from the Terminal; and

 For storm discharges that occur at least 72 hours (3 days) from the previous discharge, unless a less frequent storm interval is representative for local storm events during the sampling period.

For each monitoring event, except snowmelt monitoring, the date and duration (in hours) of the rainfall event, rainfall total (in inches) for that rainfall event, and time (in days) since the previous measureable storm event will be identified. For snowmelt monitoring, the date of the sampling event will be identified.

Documentation of the inspection is not required for submission to the EPA unless specifically requested. However documentation will be maintained on-site with this SWPPP. A quarterly visual assessment form is included in Appendix M.

Adverse Weather Conditions

If adverse weather conditions prevent the collection of samples during the quarter, substitute sample will be collected during the next qualifying storm event. Documentation of the rationale for no visual assessment for the quarter will be included with the SWPPP records as described in Part 5.4. Adverse conditions are those that are dangerous or create inaccessibility for personnel, such as local flooding, high winds, or electrical storms, or situations that otherwise make sampling impractical, such as drought or extended frozen conditions.

Climates with Irregular Stormwater Runoff

When freezing conditions exist that prevent runoff from occurring for extended periods, then the samples for the quarterly visual assessments may be distributed during seasons when precipitation runoff occurs.

Snow

Because the site is subject to snow, at least one quarterly visual assessment must capture snowmelt discharge, as described in the MSGP Part 6.1.3, taking into account the exception described above for climates with irregular stormwater runoff.

SECTION 6: DOCUMENTATION TO SUPPORT ELIGIBILITY CONSIDERATIONS UNDER OTHER FEDERAL LAWS

6.1 Documentation Regarding Endangered Species

Documentation regarding endangered species in included in Appendix R.

6.2 Documentation Regarding Historic Properties

Documentation regarding historic properties is included in Appendix S.

6.3 Documentation Regarding NEPA Review

Not applicable.

SECTION 7: SWPPP CERTIFICATION

Per the MSGP Part 5.1.7, the following certification statement must be signed and dated by a person who meets the requirements of Appendix B, Subsection 11.A or 11.B, of the MSGP. This certification must be re-signed in the event of a SWPPP modification in response to a Part 3.1 trigger for corrective action.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: Geno Marconi		Title:	Director of Ports and Harbors		
Signatu	re: Allhone		Date: 9/2/2015		

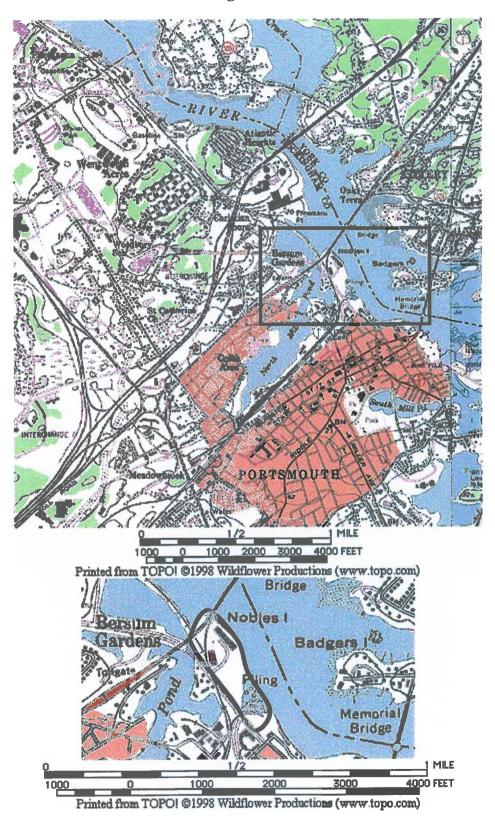
SECTION 8: SWPPP MODIFICATIONS

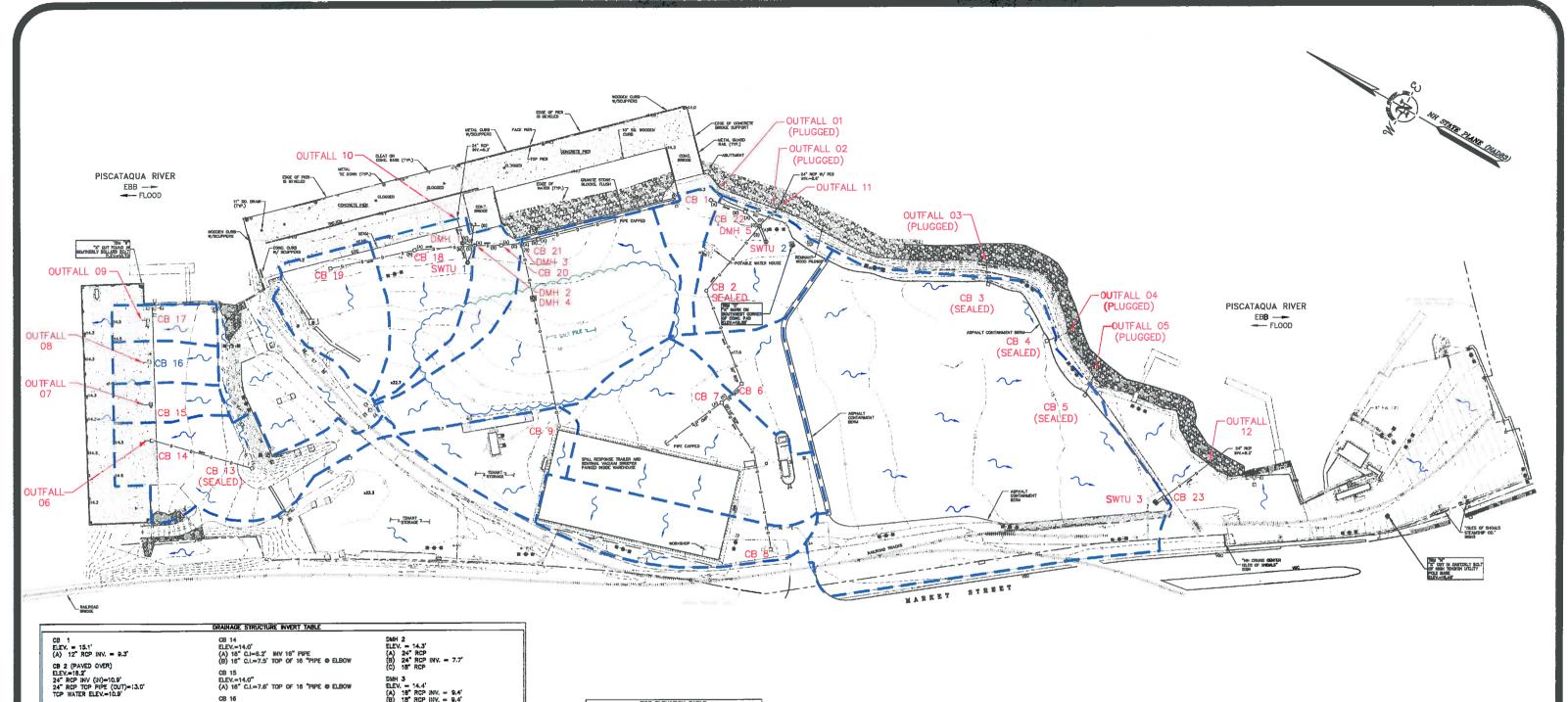
Instructions (see MSGP Part 5.2):

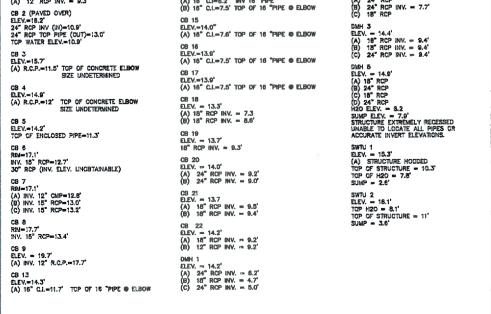
Per the MSGP Part 5.2, this SWPPP is a "living" document and is required to be modified and updated, as necessary, in response to corrective actions. See Part 3.4.

- For modifications to the SWPPP in response to a corrective action required by Part 3.1, then the Section 7 certification statement must be re-signed in accordance with Appendix B, Subsection 11.A or 11.B.
- For any other SWPPP modification, use the log included in Appendix T in this SWPPP to describe of the modification, the name of the person making it, and the date and signature of that person. See Appendix B, Subsection 11.C of the MSGP.

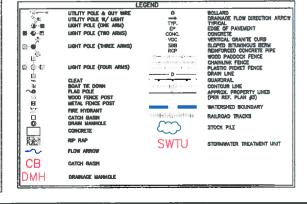
Appendix A: General Location Map Figure 1-1







TIDE ELEVATION TABLE
ESTIMATED 100 YEAR FLOOD ELEV. (STILL WATER)=12.78'
HIGHEST OSSERVABLE WATER LEVEL (2/19/72)=12.34'
HIGHEST MOSH WATER (MHHH)=0.84'
HIGHAN HIGHER HIGH WATER (MHHH)=0.43'
HIGHAN HIGH WATER (MHH)=0.43'
HIGHAN LOW WATER (MLW)=0.32'
HIGHAN LOW WATER (MLW)=0.32'
HIGHAN LOW WATER (MLW)=0.32'
LOWEST OSSERVABLE WATER (WLLW)=0.0'
LOWEST OSSERVABLE WATER LEVEL (2/10/77)=-3.2'



SURVEY NOTES

- 3. HORIZONTAL DATUM NH STATE PLANE 1983/NAD
- ALL ELECTRIC, GAS, TELEPHONE, WATER, SEWER AND DRAIN SERVICES ARE SHOWN IN SCHEMATIC FASHON. THEIR LOCATIONS ARE NOT PRECISE OR NECESSARLY ACCURATE. NO WORK WHATSOEVER SHALL BE UNDERTAKEN ON THE SITE USING THAS PILAN TO LOCATE THE ABOVE SERVICES. CONSULT WITH THE PROPER AUTHORITIES CONCERNED WITH THE SUBJECT SERVICE LOCATIONS FOR INFORMATION REGARDING SUCCALL DIG-SAFE AT 1-808-DIG-SAFE.

SWPPP NOTES ALL OUTFALLS DISCHARGE TO THE PISCATAQUA RIVER THE RIVER IS IMPAIRED FOR DIDXIN, ENTEROCOCCUS BACTERIA, MERCURY, ESTUARINE BIOASSESSMENTS, AN

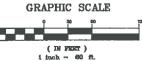
2. THE PROPERTY IS APPROXIMATELY 12.4 ACRES.

- 3. OUTFALLS 8, 7, 8, AND 9 ARE TREATED AS SUBSTANTIALLY IDENTICAL OUTFALLS.

SITE MAP MARKET STREET MARINE TERMINAL 555 MARKET STREET

PORTSMOUTH, NH 03801

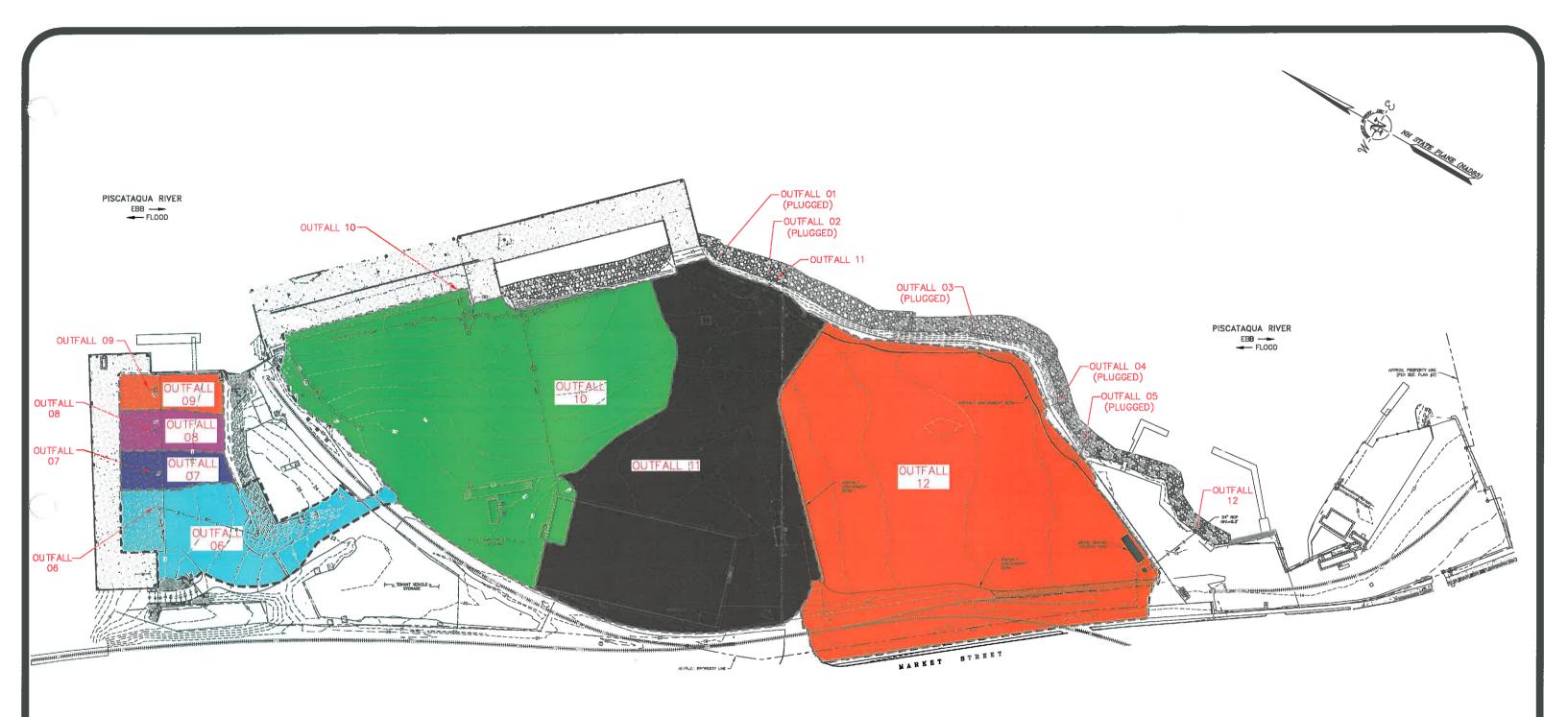
STORMWATER POLLUTION PREVENTION PLAN



DEVELOPMENT AUTHORITY

PEASE

55 INTERNATIONAL DRIVE PORTSMOUTH, NH 03801



TIDE ELEVATION TABLE
ESTIMATED 100 YEAR FLOOD ELEV. (STILL. WATER)=12.76'
HIGHEST OBSERVABLE WATER LEVEL. (2/19/72)=12.34'
MEAN HIGHER HIGH WATER (MHHY)=8.84'
MEAN HIGH WATER (MHHY)=8.62'
MEAN LOW WATER (MLW)=0.32'
MEAN LOW WATER (MLW)=0.32'
MEAN LOW FLOW MATER (MLW)=0.0'
LOWEST OBSERVABLE WATER LEVEL. (2/10/77)=-3.2'

SURVEY NOTES

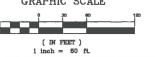
- DRAWING BASED ON TOPOGRAPHIC PLAN FOR PORTSMOUTH POR AUTHORITY, MARKET STREET, PORTSMOUTH, NEW HAMPSHIRE PREPARED BY DOLLOT SUBJECT NIC. AND DATED MAY 8. 2011
- TOPOGRAPHIC SURVEY COMPLETED BY DOUCET SURVEY, INC. IN APRIL 2007, SEPTEMBER 2007, APRIL 2011, AND DECEMBER 2012.
- 3. HORIZONTAL DATUM NH STATE PLANE 1983/NAD 1983 (CONUS) ZONE NH-2800.
- 4. VERTICAL DATUM IS BASED ON MEAN LOWER LOW WATER. THIS DATUM WAS CONVERTED FROM NAVD USING A CONVERSION FACTOR OF + 4.62.
- 5. ALL ELECTRIC, GAS, TELEPHONE, WATER, SEWER AND DRAIN SERVICES ARE SHOWN IN SCHEMATIC FASHION. THEIR LOCATIONS ARE NOT PRECISES OR INCESSARILY ACCURATE. NO WORK WHATSOEVER SHALL BE UNDERTAKEN ON THIS SITE USING THIS PLAN TO LOCATE THE ABOVE SERVICES. CONSULT WITH THE PROPER AUTHORITIES CONCERNED WITH THE SUBJECT SERVICE LOCATIONS FOR INFORMATION REGARDING SUCH, CALL DIG-SAFE AT 1-888-DIG-SAFE.



MARKET STREET MARINE TERMINAL 555 MARKET STREET PORTSMOUTH, NH 03801

STORMWATER POLLUTION PREVENTION PLAN

GRAPHIC SCALE





55 INTERNATIONAL DRIVE PORTSMOUTH, NH 03801